



Meredith – Bridge 184/138 – US Route 3 over Maple Street and NHRR  
Public Informational Meeting

September 15, 2020

# Meeting Participant Protocols:

- There will be an opportunity to ask questions and/or provide comments at the end of the formal presentation.
- Questions/comments can either be entered into the “Q&A box”, or can be addressed through the “raise your hand” option if you prefer to speak.
- When dialing in via phone, pressing \*9 will activate the “raise your hand” feature. State your name prior to asking your question.

# Poll

## How were you made aware of tonight's meeting?

- Town Meeting Notice
- Social Media
- Word of Mouth
- NHDOT Project Letter
- NHDOT Website Announcement
- Town Bulletin Board
- Other



# PRESENTERS

Joe Adams, DOT Project Manager – Introduces Project

Phil Brogan, DOT Project Lead – Bridge & Environmental Issues

Steve Ireland, McFarland Johnson – Traffic Issues

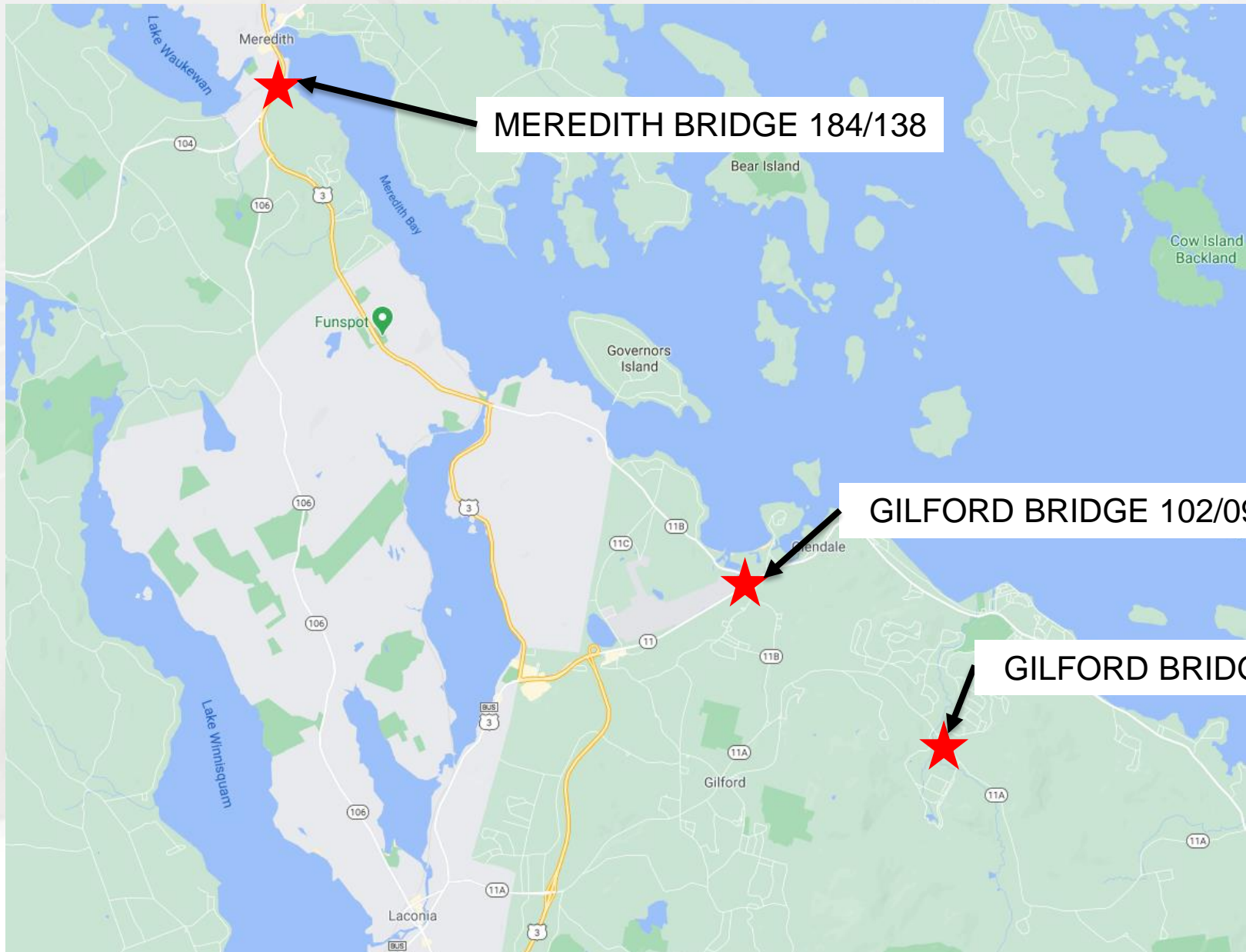
# PANELISTS

Mike Mozer, DOT Senior Project Engineer

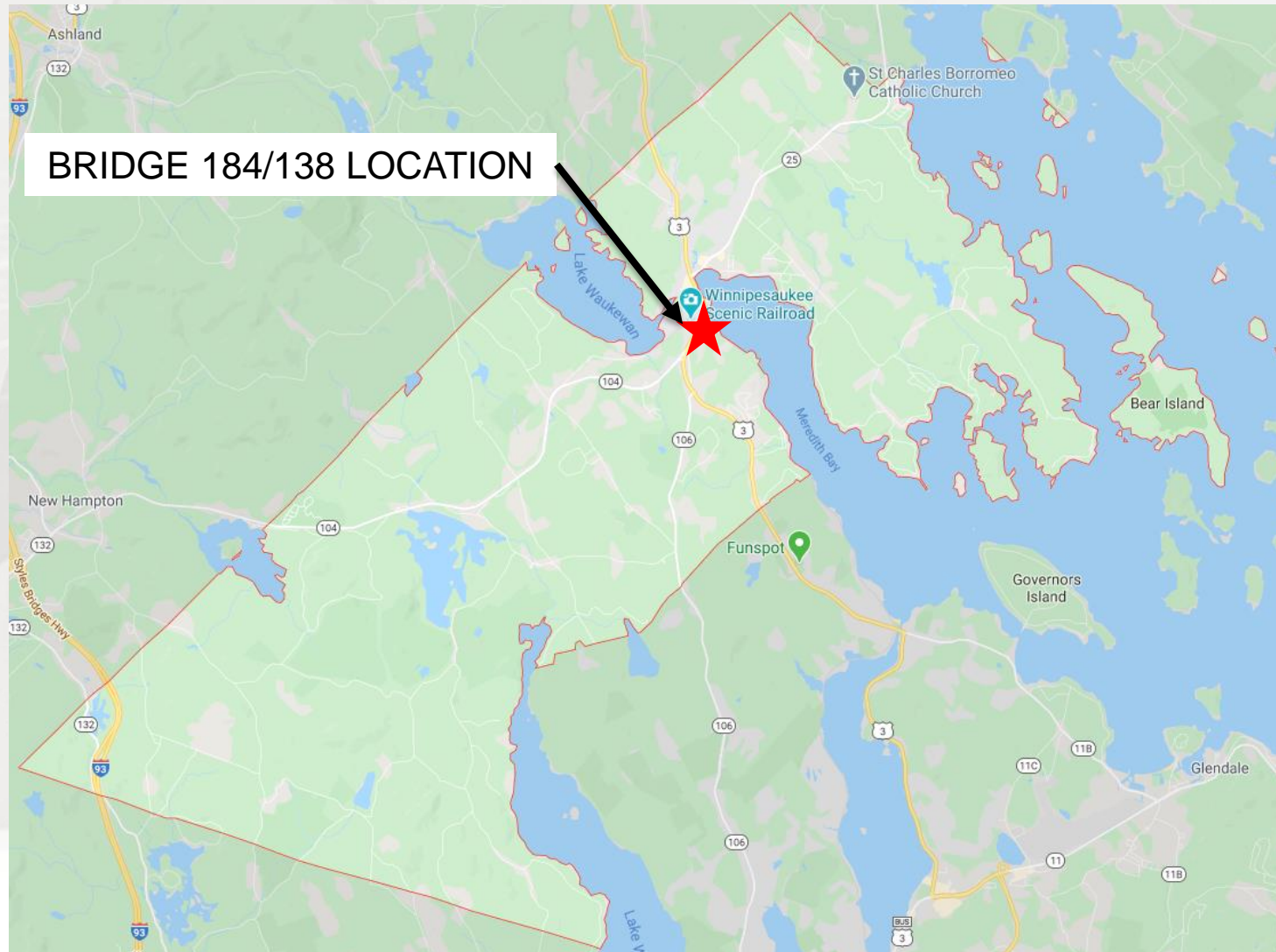
Rebecca Martin, DOT Senior Environmental Manager

Sam White, McFarland Johnson Design Team

# Project Location



# Project Location



# What is Bridge Preservation?

- Regular maintenance that extends the life of the bridge by addressing deterioration before it accelerates
- More cost effective than waiting until some or all of the bridge requires complete replacement
- Similar to regular oil changes in a vehicle

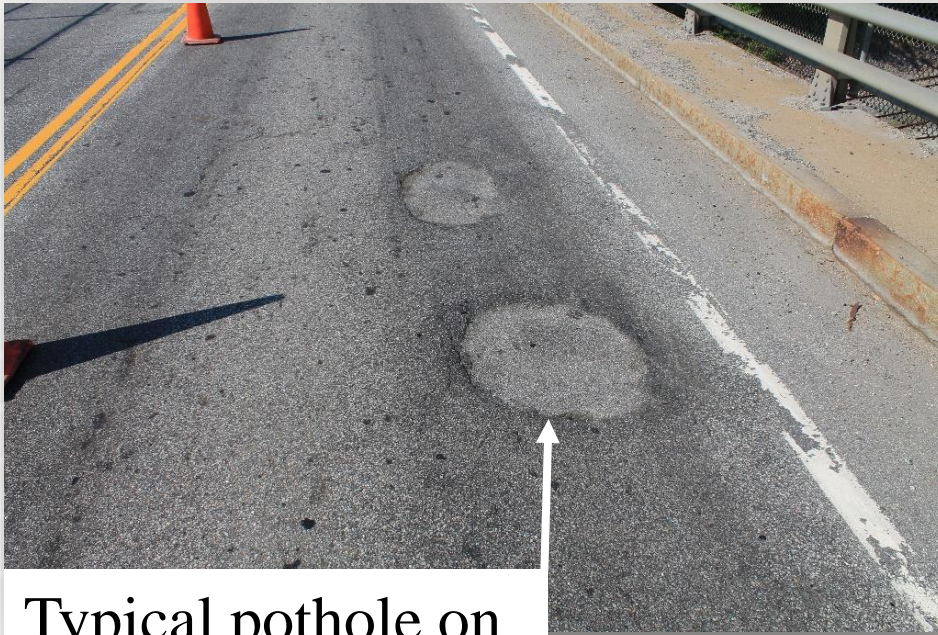


# Existing Bridge Details

- Haunched concrete T-beam
- 16-degree skew
- Four spans totaling 163'-7"
- 28'-0" curb-to-curb width
- 2'-6" safety walks on each side
- Constructed in 1947
- Bridge rehabilitation in 1983
- 16,700 vehicles per day, 7% trucks



# Existing Bridge Deterioration



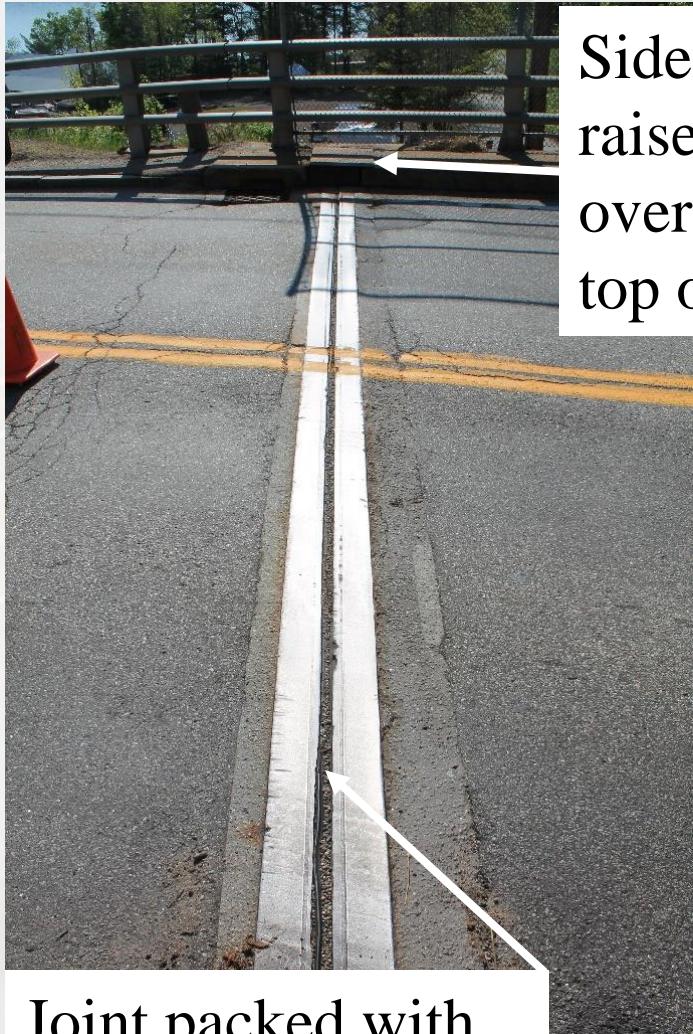
Typical pothole on  
bridge deck



Approach roadway  
settlement and  
cracking

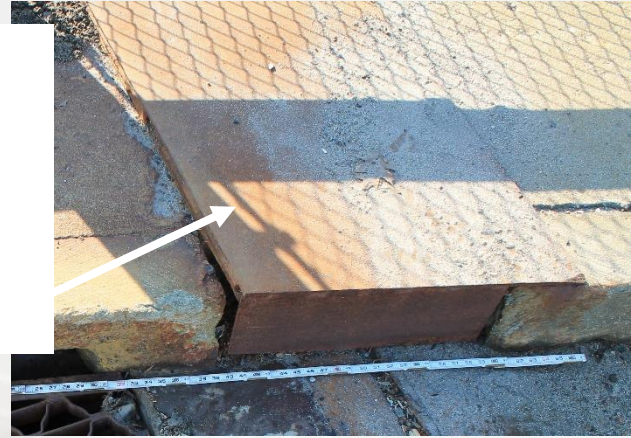


# Existing Bridge Deterioration

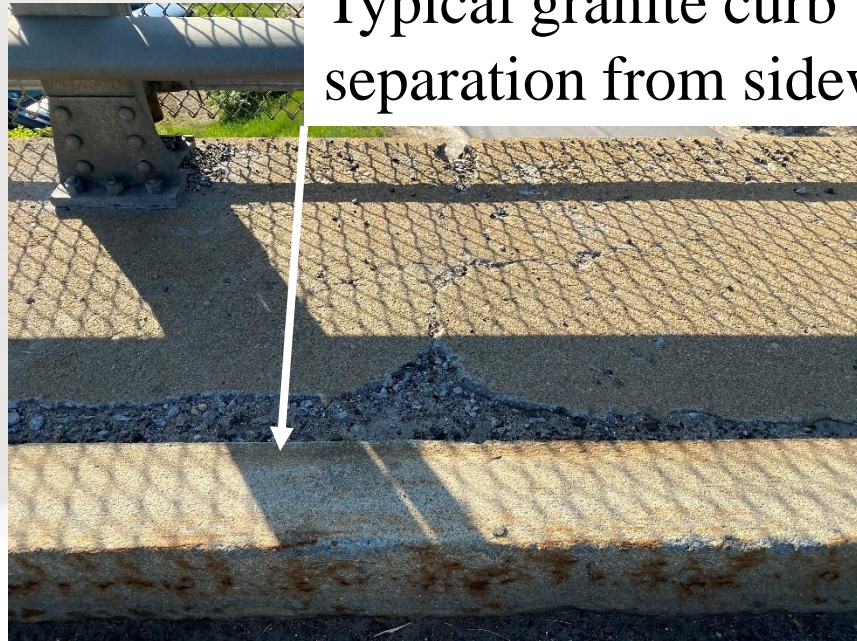


Sidewalk plate raised and overextended on top of sidewalk

Joint packed with debris and leaking



Typical granite curb separation from sidewalk

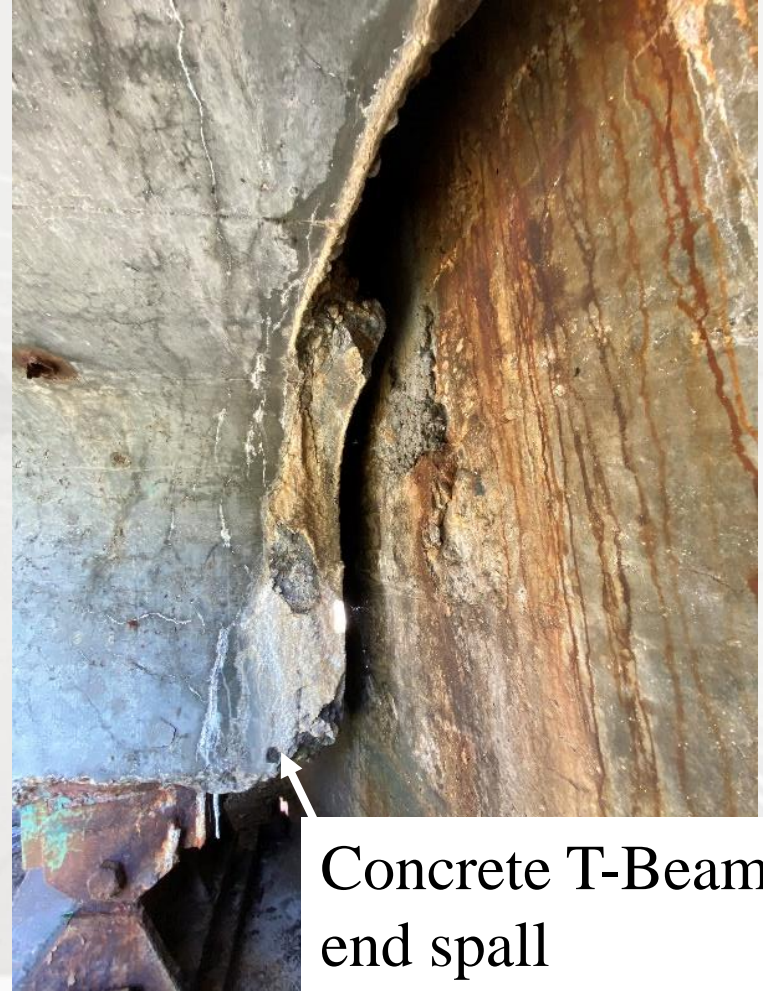




# Existing Bridge Deterioration



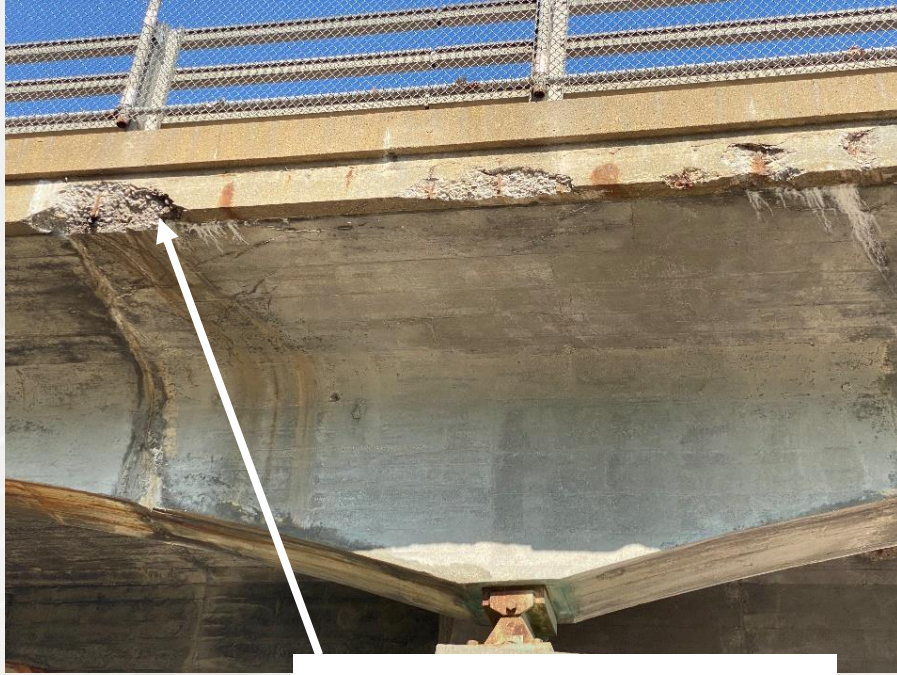
Steel bearing paint loss and corrosion



Concrete T-Beam end spall



# Existing Bridge Deterioration



Typical concrete spalling on bridge fascia

Complete concrete section loss on wingwall with exposed rebar





# Existing Bridge Deterioration



Damaged/broken catch basin frame on abutment backwall

Portions of metal drainage pipe in abutment backwall are severely corroded or completely missing



# Bridge Preservation Tasks

- Replace bridge deck membrane and asphalt overlay
- Complete concrete deck, beam, and substructure repairs
- Clean and paint bearings
- Replace granite curb with concrete curbs
- Replace bridge deck expansion joint
- Repair drainage structures integral with each bridge abutment
- Replace southern approach guardrail

# Traffic Control

## Phased Construction

- Two phases
- 6-8 weeks per phase
- Two possible construction windows
  - April-May (before Memorial Day)
  - October-November (After Columbus Day)
- Traffic data collected in October 2019

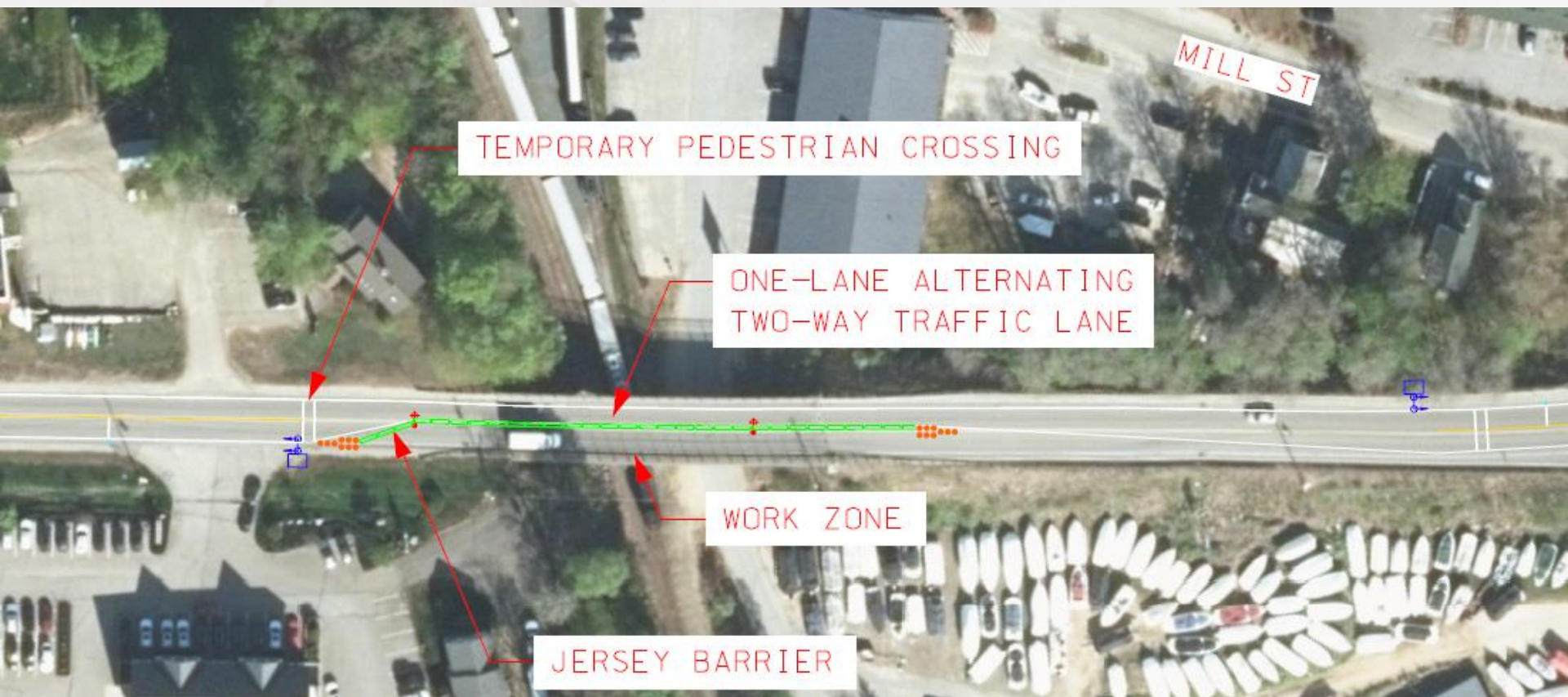


# Traffic Control Alternatives

- Alternative 1
  - Signalized one-lane alternating two-way traffic through bridge construction site.
- Alternative 2A
  - US Route 3 northbound remains on the bridge while US Route 3 southbound is detoured on state roads.
- Alternative 2B
  - US Route 3 northbound remains on the bridge while US Route 3 southbound is detoured on local roads.

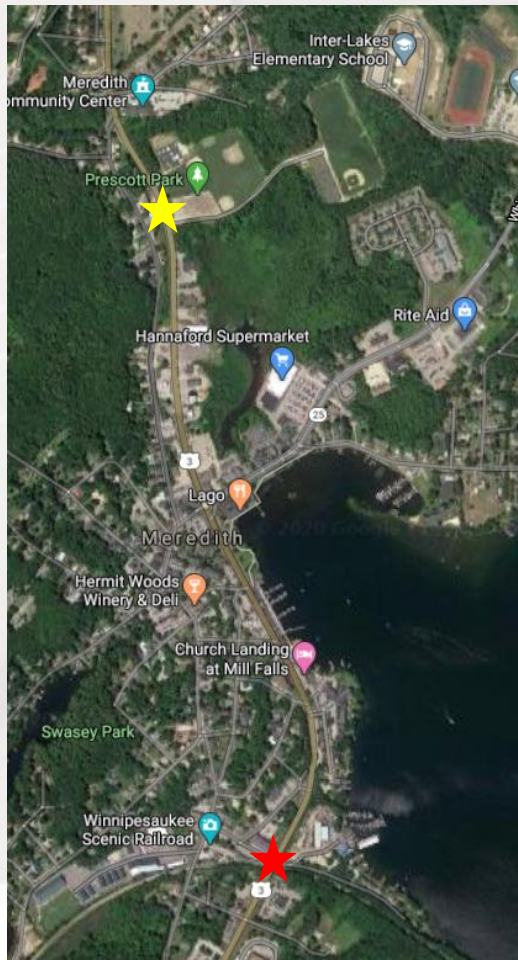


## Alt. 1 – Alternating Two-Way Traffic

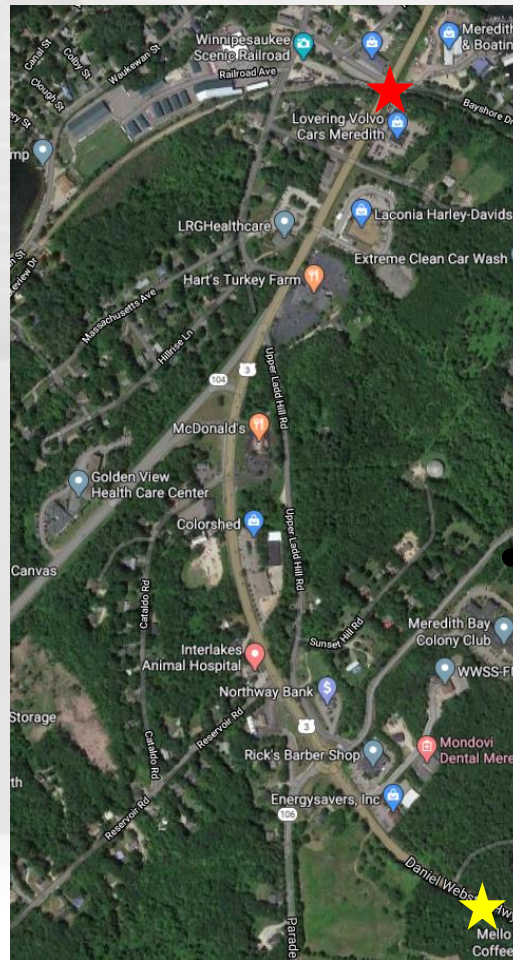


# Alt. 1 – Alternating Two-Way Traffic

## Southbound



## Northbound



★ Bridge Location

★ Approximate Queue End Location

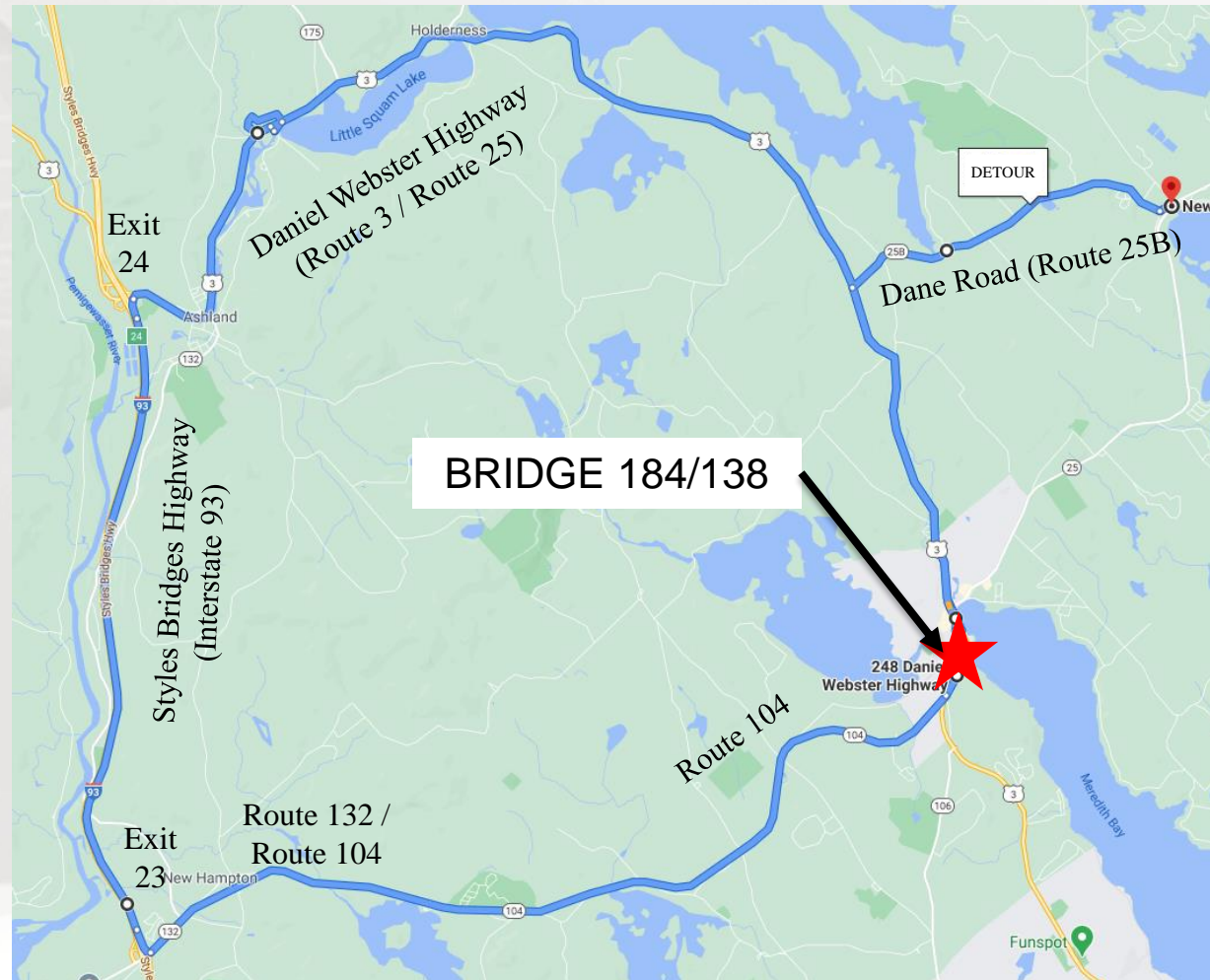
Anticipated Traffic Delays:

- AM: 5 Minutes
- PM: 9 Minutes



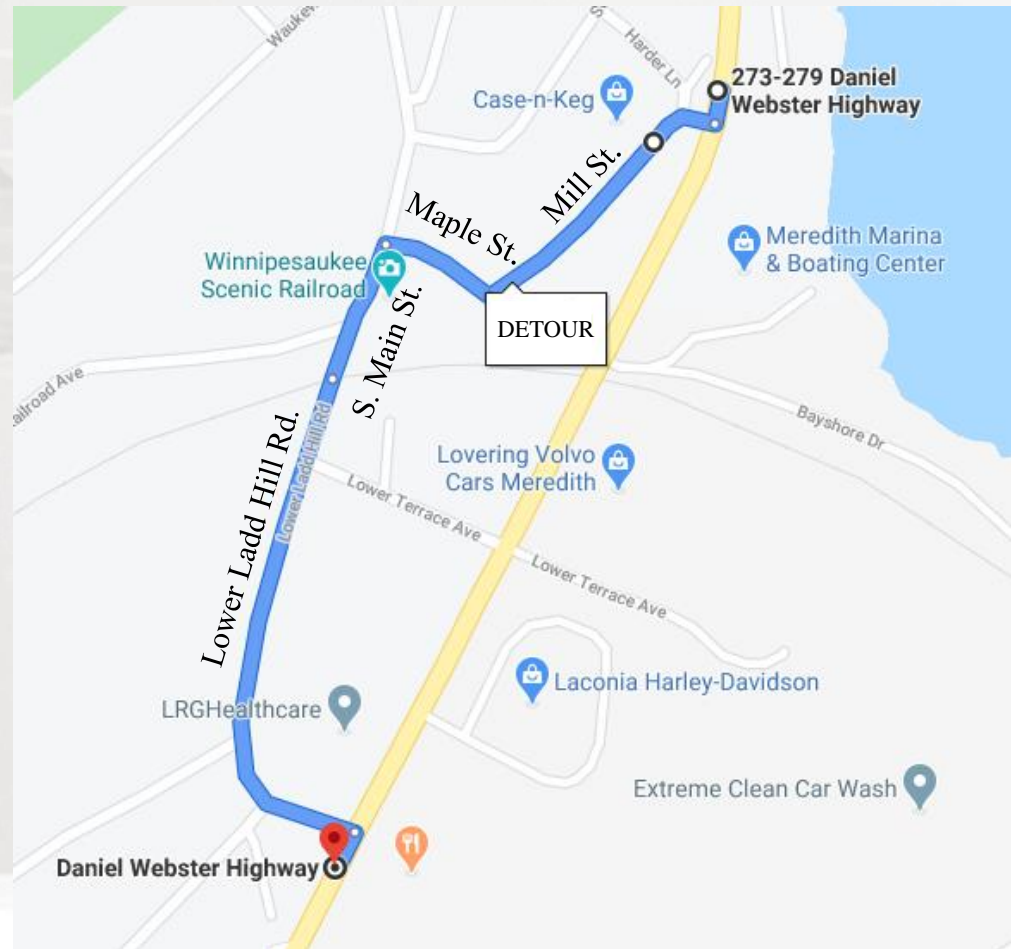
## Alt. 2A – State Road Detour

- US Route 3 & NH Route 25 southbound traffic only
- Approximately 28 miles long
- Approximately 40 minutes of travel



# Alt. 2B - Local Detour

- US Route 3 southbound traffic only
- Approximately 0.5 miles long
- Under 2 minutes of travel





# Bicycle & Pedestrian Accommodations

- Alternative 1
  - While one side of bridge is under construction, pedestrians are redirected to opposite side via a temporary signalized crosswalk
- Alternatives 2A & 2B
  - Temporary pedestrian crosswalks would be required at Terrace Avenue and Mill Street intersections

# Poll

**Out of the three traffic control alternatives presented tonight, which one would you prefer?**

- Alternative 1: Alternating Two-way Traffic
- Alternative 2A: State Road Detour
- Alternative 2B: Local Detour
- Alternative 2A/2B: Local Detour with Trucks on State Road Detour
- No Opinion

# Natural and Cultural Resources

- The bridge is considered a historic resource that is eligible for listing on the National Register of Historic Places.
- The bridge is located over the former Boston, Concord and Montreal Railroad, a National Register eligible historic district.

# Historic Resource Consultation

- Anyone with information or concerns about potential historic resources can contact the NHDOT Bureau of Bridge Design or Bureau of Environment.
- To be more formally involved, you can request to participate in project review as a consulting party under Section 106 of the National Historic Preservation Act. Please contact Jamie Sikora at FHWA to request to become a consulting party:  
[Jamie.Sikora@fhwa.dot.gov](mailto:Jamie.Sikora@fhwa.dot.gov)

<https://www.nh.gov/dot/org/projectdevelopment/environment/units/program-management/documents/Bureau16consultingpartyhandout-updatedAug2011.pdf>



# Project Schedule

- Public Informational Meeting – September 15<sup>th</sup>, 2020
- Present proposed work to Cultural and Natural Resource Agencies to get their input and comments – Fall 2020
- Complete the NEPA process (National Environmental Policy Act) – Fall 2020
- Final Design – Fall 2020
- Advertising – Winter 2021
- Construction – 2021 and/or 2022

# Input is Needed

- Emergency response routes
- Mutual aid
- School bus routes
- Historic concerns
- Seasonal concerns with construction
- Bike and pedestrian concerns
- Other concerns

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# Poll

**With 1 being "poor" and 5 "very good" how would you rate your experience with tonight's Public Informational Meeting via Zoom?**

# Contact Information:

- Project Manager – Joe Adams, P.E.
- Email – [Joseph.AdamsJr@dot.nh.gov](mailto:Joseph.AdamsJr@dot.nh.gov)
- Telephone – (603) 271-2731